

Key Product:	Algo 8180 SIP Audio Alerter
Application:	Configuring an 8180 to work on CME 8.6 using CCP
Summary:	Using Cisco Configuration Professional (CCP) on Cisco Communications Manager Express (CME) 8.6, an 8180 is configured to ring simultaneously with an existing extension/phone.

Configuration Overview

Follow these five steps to configure the 8180 on the CME platform:

1. Decide which existing phone and extension you want to ring simultaneously with an 8180. We'll call these the "Target Phone" and the "Target Extension" (e.g. Cafeteria Phone Ext. 3052).
2. Start up CCP and enable SIP to SIP connection on CME.
3. Create a new SIP Extension for use by the 8180 ("8180 Extension"), then create a new SIP Phone and User and associate it with this new extension.
4. Change the Extension currently associated with the Target Phone to a new Extension ("Pseudo Extension").
5. Create a Hunt Group with a Pilot number that matches the Target Extension so that when the Target Extension is dialled, both the 8180 and the Target Phone (now using a Pseudo Extension) will ring.



The 8180 can appear as two separate endpoints. One endpoint will play an audio file from internal memory upon ring detection, and the other will auto-answer for voice paging, with an option for talkback. If you want to use the device with both endpoints, repeat step 3 above to create two separate extensions, phones, and user.

Enable SIP to SIP Connection

1. Log into the CME CCP.
2. Go to Configure > Unified Communications > VOIP Settings.



- In the VoIP Parameters box, click “Edit” at the bottom.

VoIP Parameter	Configured Value
▼ General VoIP Settings	
SIP to SIP connection	Enabled
SIP to H.323 connection	Enabled
H.323 to SIP connection	Enabled
H.323 to H.323 connection	Enabled
▼ SIP Settings	
Local SIP registrar	Enabled
SIP 302 moved temporarily for call forward	Enabled
SIP Refer for call transfer	Enabled
Transport protocol for SIP signaling	UDP
Interface to be used as source in Control (SIP) packets	GigabitEthernet0/0.100
Interface to be used as source in Media (RTP) packets	GigabitEthernet0/0.100
▼ H.323 Settings	
H.450.2 protocol for call transfer	Disabled
H.450.3 protocol for call forwarding	Disabled
H.450.7 protocol for MWI	Disabled
H.450.12 protocol for discovering call transfer and call forwarding capabilities	Disabled

Edit... Reset to default...

- On the General VoIP Settings tab, ensure “Allow SIP to SIP connection” is checked, then click OK to save the changes.

General VoIP Settings SIP Settings H.323 Settings

In order to connect two disparate VoIP networks, the device must be configured to allow different types of endpoints to communicate. Select from one of the following options.

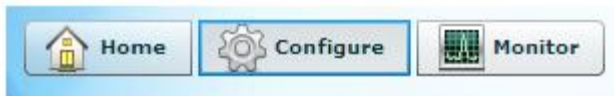
- Allow SIP to SIP connection
- Allow SIP to H.323 connection
- Allow H.323 to SIP connection
- Allow H.323 to H.323 connection

* Indicates a mandatory field

OK Cancel

Create New Extension, Phone, and User for the 8180

5. While still logged into CCP, click the “Configure” tab.



6. Expand the “Unified Communications” section followed by “Users, Phones, and Extensions”. Then select “Extensions” and click the “Create...” button at the bottom to display the “Create Extension” box.

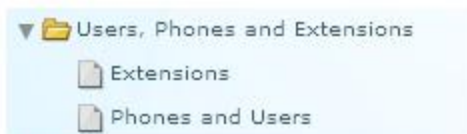


7. Set the Extension Type as "SIP" then edit the General section to set a Primary Number for the extension as well as the name to be displayed on the phone line. When complete, click OK to apply the changes.

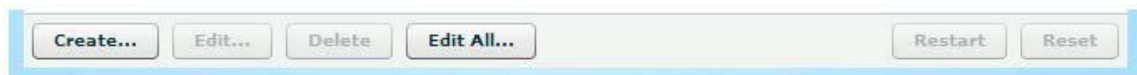
The screenshot shows a 'Create Extension' dialog box. At the top, 'Extension Type*' is set to 'SIP' (radio button selected). Below it, a list of features is shown on the left, with 'General*' selected. The 'General' section is expanded, showing 'Primary number *:' with the value '3060' and 'Name to be displayed on phone line:' with the value '8180 Extension'. There is a checkbox for 'Shared Line' which is unchecked. Below that is the 'Call Forwarding' section, which includes fields for 'Forward All Calls to:', 'When Busy, Divert Calls to:', 'Divert Unattended Calls to:', and 'No Answer Timeout:' (set to a greyed-out field with the unit 'seconds (3-60,000)'). At the bottom, there are 'OK' and 'Cancel' buttons. A red asterisk indicates a mandatory field.

Create a New SIP Phone

8. Navigate to the "Phones and Users" section.



9. Click "Create..." to create a phone.



10. Set "Phone Type" as "SIP".

The screenshot shows a 'Phone Settings' tab. Below the tab, 'Phone Type *:' is set to 'SIP' (radio button selected).

11. Create the "Phone" under the Phone tab.

Phone Type: SCCP SIP

Phone Model: Other

MAC address: 0022.EE02.0096

Extensions

To associate extension(s) to a phone line, select phone line on the right and add from the available extension(s) on the left.

Available Extensions

Line	Associated Extension	Line Type	Ring Type
1	3060	Regular	Normal

* Indicates a mandatory field

OK Cancel

Create a New User

12. Navigate to the "User" tab and assign a User to the device.

User ID: CafeteriaRinger

First Name: Cafeteria

Last Name: Ringer

Display Name: Cafeteria Ringer

Password Generation: Use Custom Password Below

New Password: *****

Confirm Password: *****

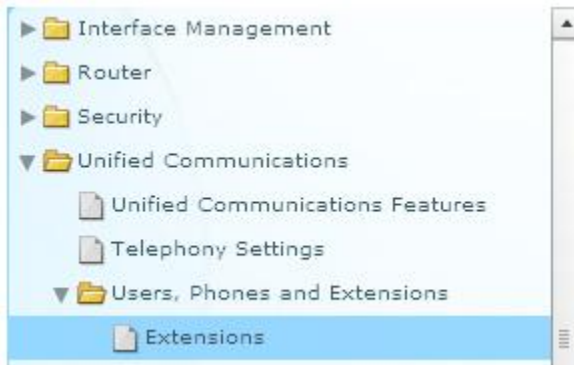
* Indicates a mandatory field

OK Cancel

13. Click "OK" to apply the changes.

Change the Target Phone's Extension

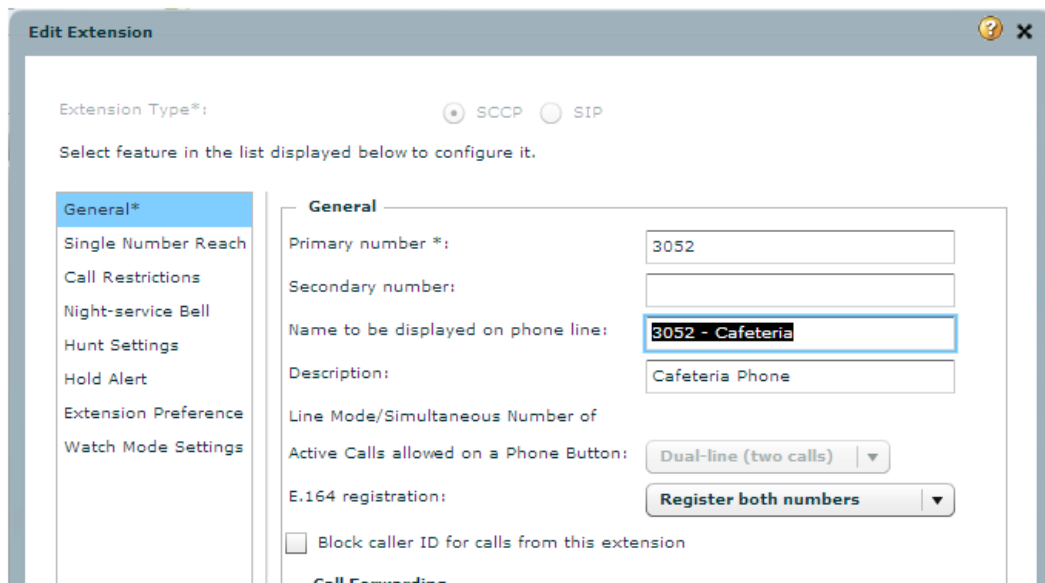
14. Navigate to Configure > Unified Communications > Users, Phones, and Extensions > Extensions



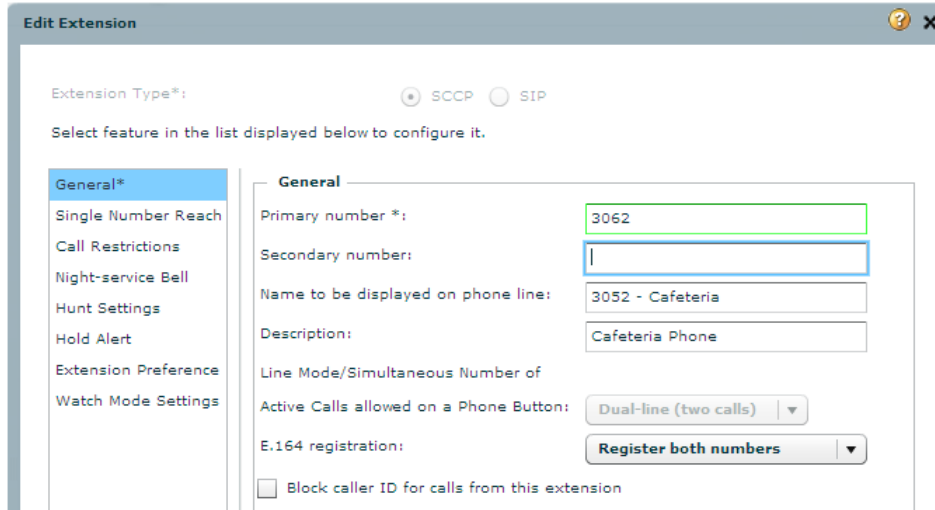
15. Select the Extension currently associated with the Target Phone.

2	SCCP	3052	3052 - Cafeteria	pgriffen	ACA0.16t	DUAL		
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16. Click "Edit. . ." located at the bottom to display the Edit Extension box.



17. Change the Primary number to a different unused number (“Pseudo Extension”).

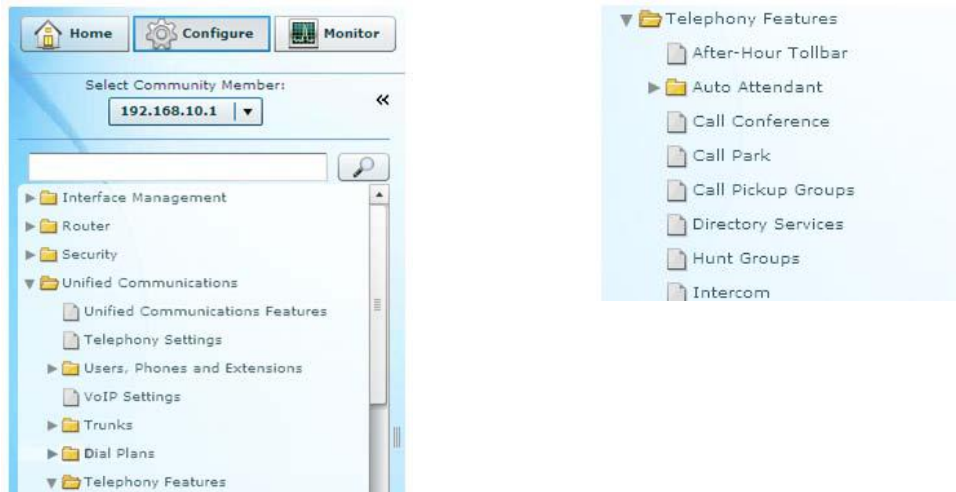


18. Click OK to save the changes.

Create a Hunt Group

The next step is to create a Hunt Group so that the 8180 rings when the Target Phone/Extension rings.

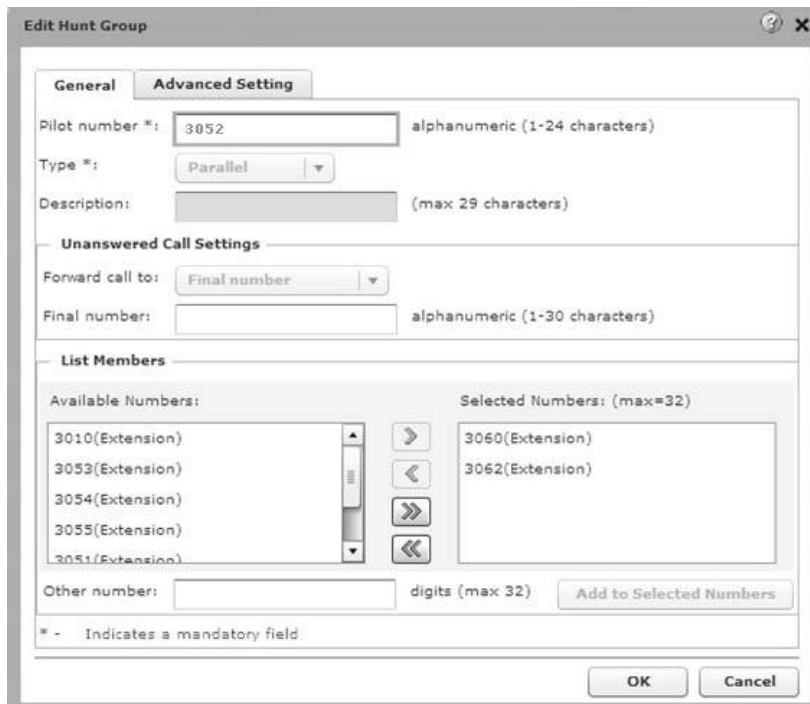
19. Go to “Configure” > “Unified Communications” > “Telephony Features” Section, then click on “Hunt Groups”.



20. Click “Create...” which is located at the bottom.



- 21. Assign a Pilot number that is the same as the Target Extension
 - a. Set the Type as “Parallel”.
 - b. Select all extensions that will participate in the ringing group and place them in the “Selected numbers” area. For this application, choose the 8180 Extension and the Pseudo Extension.
 - c. Click OK to apply the changes.



22. Using the example above, dialling 3052 (the Target Extension) should now ring the Target Phone (on Pseudo Extension 3062) and the 8180 SIP Audio Alerter (on Extension 3060).

For More Information

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